

Page 4, between the last two paragraphs at line 23, insert:

--Brief Description of the Drawings--.

Page 5, before the first full paragraph at line 3, insert:

--Description of the Preferred Embodiment--.

Page 10, top, change "Patent claims" to --We Claim--.

In the Claims:

Cancel claims 1 to 4 and enter the following new claims.

---

B  
~~--5. A method of handling telephone signals supplied by an analog telephone set and data supplied by a data terminal in a subscriber line circuit of a digital telephone switching system used at least in subregions for data transmission, which comprises:~~

~~directly connecting a telephone set and a data terminal with a modem to a subscriber line circuit of a digital telephone switching system through a common analog subscriber line;~~

~~at least one of:~~

~~subjecting data supplied by the data terminal to a sampling operation at a sampling rate above a sampling rate required~~

for telephone information during analog/digital conversion;  
and

coding sampling values representing data supplied by the  
data terminal according to a linear characteristic during  
analog/digital conversion; and

feeding data originating from and handled by the data terminal  
directly to a data transmission network.

6. The method according to claim 5, which further comprises  
modulating data signals supplied by the data terminal onto a  
carrier signal for transmission on the subscriber line at a  
frequency above a frequency band authorized for transmission of  
telephone signals.

7. A subscriber line circuit for handling telephone signals  
supplied by an analog telephone set and data supplied by a  
data terminal in a subscriber line circuit of a digital  
telephone switching system used at least in subregions for  
data transmission, comprising:

a telephone set for producing telephone signals;

a data terminal having a modem for producing data signals;

an analog subscriber line, said telephone set (Tela, Telb) and  
said data terminal directly connected to a subscriber line  
circuit of a digital telephone switching system through said  
analog subscriber line;

B  
an analog/digital converter having a sampling rate above a  
sampling rate required for telephone information, said  
analog/digital converter:

connected to said telephone set and said data terminal;

A3  
can't  
receiving said telephone signals and said data signals;  
and

producing digital signals; and

a digital signal processor reducing said digital signals at  
least when said digital signals represent telephone signals to  
a transmission bit rate for telephone transmission and  
simultaneously coding said telephone signals according to a  
nonlinear characteristic.

8. The subscriber line circuit according to claim 7, wherein  
said digital signal processor emits digital signals, and  
including:

a data network; and

a digital interface connected to said digital signal processor,  
said digital interface:

B  
conveying digital signals representing data signals emitted  
by said digital signal processor to said data network; and

conveying to said digital signal processor digital signals  
coming from said data network intended for said data  
terminal.

AS  
Cont  
9. In a digital telephone switching system used at least in  
subregions for data transmission, a subscriber line circuit,  
comprising:

a telephone set for producing telephone signals;

a data terminal having a modem for producing data signals;

an analog subscriber line, said telephone set and said data  
terminal directly connected to the digital telephone switching  
system through said analog subscriber line;

an analog/digital converter having a sampling rate above a sampling rate required for telephone information, said analog/digital converter:

B  
connected to said telephone set and said data terminal;

receiving said telephone signals and said data signals;

and

producing digital signals; and

AB  
a digital signal processor reducing said digital signals at least when said digital signals represent telephone signals to a transmission bit rate for telephone transmission and simultaneously coding said telephone signals according to a nonlinear characteristic.

10. The subscriber line circuit according to claim 9, wherein said digital signal processor emits digital signals, and including:

a data network; and

a digital interface connected to said digital signal processor, said digital interface: